

(FILE 'USPAT' ENTERED AT 10:30:30 ON 28 JAN 1998)

L1 16 S POLYMETHYLCYCLOSILOXANE
L2 1468 S OCTAMETHYLCYCLOTETRASIOXANE
L3 456 S DECAMETHYLCYCLOPENTASIOXANE
L4 1520 S L2 OR L3
L5 25088 S 65/CLAS
L6 13 S L4 AND L5
L7 1345 S CYCLIC (3A) SILOXANE
L8 1 S L5 AND L7
L9 0 S L4 AND 285/CLAS
L10 1 S 385/CLAS AND L4

FILE 'JPOABS' ENTERED AT 10:38:00 ON 28 JAN 1998

L11 1 S L1
L12 64 S L4
L13 133019 S FIBER OR FIBRE OR WAVEGUIDE OR LIGHTGUIDE
L14 3 S L12 AND L13

FILE 'EPOABS' ENTERED AT 10:39:42 ON 28 JAN 1998

L15 1 S L14
L16 1 S L1
L17 49 S CYCLOSILOXANE
L18 20 S L13 AND L17

FILE 'USPAT' ENTERED AT 10:41:26 ON 28 JAN 1998

L19 526 S L4 AND L13
L20 120 S L17 AND L13
L21 25088 S 65/CLAS
L22 6 S L21 AND L20

L11 ANSWER 4 OF '4 CA COPYRIGHT 1998 ACS
 AN 113:236494 CA
 TI Manufacture of vitreous silica products by vapor-phase oxidation of
 silica precursors in a flame, and the products obtained
 IN Wells, Peter John; Sayce, Ian George; Smithson, Alan
 PA TSL Group PLC, UK
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 PI WO 9010596 A1 900920
 DS W: AU, CA, FI, GB, JP, KR, US
 RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE
 AI WO 90-GB384 900314
 PRAI GB 89-5966 890315
 DT Patent
 LA English
 IC ICM C01B033-18
 CC 57-1 (Ceramics)
 AB In the title process, .gtoreq.60% of the SiO₂ in the products is
 obtained by oxidn. of (a) .gtoreq.1 straight-chain Si compds. having
 general formula R₃SiO(SiR₂O)_nSiR₃ (n = integer; R is .gtoreq.1 of
 (substituted) alkyl, (substituted) Ph, OH, and vinyl) and/or (b)
 .gtoreq.1 volatile, cyclic Si compd. having general formula Si_nO_nR_{2n}
 (n = integer >2). The products may be in the form of fume, porous
 SiO₂ soot, or fully densified bodies, and are not
 contaminated with Cl. **Octamethylcyclotetrasiloxane** vapor
 in a N carrier flow was oxidized in a H-O flame to give a
 soot body that was sintered to give a high-purity vitreous
 SiO₂ tube contg. <1 ppm OH.
 ST flame oxidn precursor vitreous silica; siloxane vapor phase oxidn
 silica; dopant flame oxidn precursor silica
 IT Cyclosiloxanes
 Siloxanes and Silicones, reactions
 RL: RCT (Reactant)
 (oxidn. of, vapor-phase, in flame, for chlorine-free vitreous
 silica products)
 IT Optical fibers
 (vitreous silica, manuf. of doped, by vapor-phase oxidn. of
 dopant precursor-contg. siloxanes in hydrogen-oxygen flame)
 IT Oxidation
 (gas-phase, of siloxanes and cyclosiloxanes, in flame, for
 chlorine-free vitreous silica products)
 IT 109-63-7 13963-57-0
 RL: USES (Uses)
 (**cyclosiloxane** vapors contg., flame-oxidn. of, for
 chlorine-free doped vitreous silica)
 IT 60676-86-0P, Vitreous silica
 RL: PREP (Preparation)
 (fume or soot or densified, manuf. of, by vapor-phase
 oxidn. of silica precursors in flame)
 IT 541-02-6, Decamethylcyclopentasiloxane 556-67-2
 RL: RCT (Reactant)
 (oxidn. of, vapor-phase, in flame, for chlorine-free vitreous
 silica products)

(FILE 'HOME' ENTERED AT 10:50:26 ON 28 JAN 1998)

FILE 'CA' ENTERED AT 10:50:45 ON 28 JAN 1998

L1	0 S POLYMETHYLCYCLOSILOXANE
L2	9 S POLYMETHYLCYCLOSILOXANE
L3	2292 S OCTAMETHYLCYCLOTETRAISILOXANE
L4	908 S HEXAMETHYLCYCLOTRISILOXANE
L5	533 S DECAMETHYLCYCLOPENTASILOXANE
L6	21592 S WAVEGUIDE OR LIGHTGUIDE OR LIGHT GUIDE
L7	1243 S CYCLOSILOXANE
L8	3920 S L2 OR L3 OR L4 OR L7
L9	2 S L8 AND L6
L10	9071 S SOOT
L11	4 S L10 AND L8
L12	5261 S FUME NOT L10
L13	7 S L12 AND L8
L14	1582 S HEXAMETHYLDISILOXANE
L15	2 S L14 AND (L10 OR L12)